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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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	-			2154	7	
				DATE MAILED: 07/07/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	1					
	09/771,156	MALTZ ET AL.	ha					
Office Action Summary	Examiner	Art Unit						
	Philip C Lee	2154						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence addr	ess					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 vill apply and will expire SIX (6) MONTHS , cause the application to become ABANE	be timely filed O) days will be considered timely. From the mailing date of this component (35 U.S.C. § 133)	nunication.					
Status								
1)⊠ Responsive to communication(s) filed on <u>17 No</u>	ovember 2003.							
	action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ☐ Claim(s) 1-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-51 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.							
Application Papers								
9) The specification is objected to by the Examine	r.							
10)☐ The drawing(s) filed on is/are: a)☐ acce	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	• • •	, ,						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex			` '					
Priority under 35 U.S.C. § 119								
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the priority documents.	s have been received. s have been received in Appl rity documents have been rec u (PCT Rule 17.2(a)).	ication No ceived in this National St	age					
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4. 		mary (PTO-413) ail Date mal Patent Application (PTO-1	52)					

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DETAILED ACTION

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1. Claims 1-51 are presented for examination.

- 2. It is noted that although the present application does contain line numbers in the specification and claims, the line numbers in the claims do not correspond to the preferred format. The preferred format is to number each line of every claim, with each claim beginning with line 1. For ease of reference by both the Examiner and Applicant <u>all</u> future correspondence should include the recommended line numbering.
- 3. Claims 2-25 and 28-50 are objected to because of the following informalities: As per claims 2-25, line 1, "The invention" [i.e. the preamble must be "The method"]. As per claim 28-50, line 1, "The invention" [i.e. "The system"]. Appropriate correction is required.

Claim Rejections – 35 USC 112

4. Claims 3-8, 15-16, 23, 28-33, 40-41 and 48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- a. The following terms lack proper antecedent basis:
 - i. the first-mentioned network element claims 3-5 and 28-30.
 - ii. the first-mentioned instruction claim 6-8 and 31-33.
 - iii. the determining and rearranging acts claims 7-8 and 32-33.
- b. Claim language in the following claims is not clearly understood:
 - i. As per claims 3-5, line 1, it is unclear if "the first-mention network element" refers to the network element in claim 1, line 1 or the at least one additional network element in claim 2, line 2.
 - ii. As per claims 6-8, it is uncertain if "the first-mentioned instruction" refers to the instruction in claim 1, line 3 or the at least one additional instruction in claim 2, lines 1-2.
 - iii. As per claims 15 and 16, it is not clearly understood what is meant by RSVP or RSVP-TE [i.e. please expand on abbreviations].
 - iv. As per claim 23, it is unclear what is meant by COPS [i.e. please expand on abbreviations].
 - v. As per claims 28-30, they have the same problems or uncertainties as in claims 2-5.
 - vi. As per claims 31-33, they have the same problems or uncertainties as in claims 6-8.
 - vii. As per claims 40-41, they have the same problems or uncertainties as in claims 15 and 16.
 - viii. As per claim 48, they have the same problem or uncertainty as in claim 23.

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Claim Rejections - 35 USC 102

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 6. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 7. Claims 1-5, 26-30 and 51 are rejected under 35 U.S.C. 102(e) as being anticipated by Banginwar, U.S. Patent 6,611,863 (hereinafter Banginwar).
- 8. As per claims 1, 26 and 51, Banginwar taught the invention as claimed for configuring a network element in a computer network (col. 3, lines 21-29), comprising:

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receiving an instruction to configure a network element in a computer network (col. 3,

lines 21-22);

converting the instruction into a form understood by the network element (col. 3, lines

23-24); and

sending the converted instruction to the network element (col. 3, lines 24-26).

9. As per claims 2 and 27, Banginwar taught the invention as claimed as in claims 1 and 26 above. Banginwar further taught comprising receiving at least one additional instruction to configure at least one additional network element in the computer network, converting the at least one additional instruction into a form understood by the at least one additional network element, and sending the converted at least one of additional instruction to the at least one additional network element (col. 3, lines 21-29; col. 6, lines 47-51).

- 10. As per claims 3 and 28, Banginwar taught the invention as claimed in claims 2 and 27 above. Banginwar further taught wherein the first-mentioned network element and the at least one additional network element are same type devices from different vendors (col. 3, lines 4-17, 47-67).
- 11. As per claims 4 and 29, Banginwar taught the invention as claimed in claims 2 and 27 above. Banginwar further taught wherein the first-mentioned network element and the at least one additional network element are different type devices form different vendors (col. 3, lines 4-17, 47-67).

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12. As per claims 5 and 30, Banginwar taught the invention as claimed in claims 2 and 27

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above. Banginwar further taught wherein the first-mentioned network element and the at least

one additional network element are different type devices from same vendors (col. 3, lines 4-17,

47-67).

Claim Rejections – 35 USC 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

14. Claims 6-8 and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Banginwar in view of Vacante et al, U.S. Patent 6,651,191 (hereinafter Vacante).

15. As per claims 6 and 31, Banginwar taught the invention as claimed in claims 2 and 27

above. Banginwar did not teach arranging and determining instructions in the first order.

Vacante taught wherein the first-mentioned instruction and the at least one additional instruction

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are arranged in a first order (col. 3, lines 66-col. 4, lines 4; col. 5, lines 16-19), and wherein the invention further comprises:

determining whether the first-mentioned instruction and the at least one additional instruction will result in an invalid network state of the computer network if implemented in the first order (col. 6, lines 58-60; col. 5, lines 19-col. 6, lines 9); and if the first-mentioned instruction and the at least one additional instruction will result in an invalid network state of the computer network if implemented in the first order, rearranging the first-mentioned instruction and the at least one additional instruction into an order that will not result in an invalid network state if implemented (col. 6, lines 60-67).

- 16. As per claims 7 and 32, Banginwar and Vacante taught the invention substantially as claimed in claims 6 and 31 above. Vacante did not specifically teach determining and rearranging the instructions before the instruction are converted. However, It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the determining and rearranging processes before the instruction are converted because by doing so would increase the efficiency of Banginwar's and Vacante's systems by avoiding the instruction conversion process if the device is compatible with generic configuration instruction.
- 17. As per claims 8 and 33, Banginwar and Vacante taught the invention substantially as claimed in claims 6 and 31 above. Vacante further taught wherein the determining and

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rearranging acts are performed after the first-mentioned instruction and the at least one additional instruction are converted (col. 5, lines 10-14, 21-24).

- 18. Claims 9-12, 21, 23, 34-37, 46 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banginwar in view of Heuer, U.S. Patent 6,205,121 (hereinafter Heuer).
- 19. As per claims 9 and 34, Banginwar taught the invention as claimed in claims 1 and 26 above. Banginwar did not teach configuring the network element based on a traffic demand. Heuer taught comprising generating the instruction to configure the network element based on a traffic demand of the computer network (fig. 3; col. 2, lines 45-55; col. 3, lines 50-56; col. 4, lines 12-14; col. 4, lines 66-col. 5, lines 16).
- 20. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banginwar and Heuer because Heuer's method of configuration based on traffic demand would increase the efficiency of Banginwar's system by allowing optimized configuration of network element based on the demand of the network traffic.
- 21. As per claims 10 and 35, Banginwar and Heuer taught the invention substantially as claimed in claims 9 and 34 above. Heuer further taught wherein the instruction to configure the network element is generated based on a predicted traffic demand of the computer network

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(fig.3; col. 2, lines 45-55; col. 3, lines 50-56; col. 4, lines 12-14; col. 4, lines 66-col. 5, lines 16; col. 5, lines 59-col. 6, lines 4).

- As per claims 11 and 36, Banginwar and Heuer taught the invention substantially as claimed in claims 9 and 34 above. Heuer further taught wherein the traffic demand is determined at least in part from traffic data from a plurality of network elements in the computer network (fig. 3; col. 2, lines 45-55; col. 3, lines 50-56; col. 4, lines 12-14; col. 4, lines 66-col. 5, lines 16; col. 5, lines 59-col. 6, lines 4).
- 23. As per claims 12 and 37, Banginwar and Heuer taught the invention substantially as claimed in claims 9 and 34 above. Heuer further taught wherein the traffic demand is determined at least in part from traffic data predicted from a plurality of network elements in the computer network (fig.3; col. 2, lines 45-55; col. 3, lines 50-56; col. 4, lines 12-14; col. 4, lines 66-col. 5, lines 16; col. 5, lines 59-col. 6, lines 4).
- 24. As per claims 21 and 46, Banginwar and Heuer taught the invention substantially as claimed in claims 9 and 34 above. Banginwar further taught wherein the traffic demand is determined at least in part from a policy system (col. 2, lines 13-34).
- 25. As per claims 23 and 48, Banginwar and Heuer taught the invention substantially as claimed in claims 21 and 46 above. Banginwar further taught wherein the policy system is implemented using COPS (col. 1, lines 29-34).

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26. Claims 13-14, 17-19, 22, 24, 38-39, 42-44, 47 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banginwar and Heuer in view of Graves et al, U.S. Patent 6,741,572 (hereinafter Graves).

- As per claims 13 and 38, Banginwar and Heuer taught the invention substantially as claimed in claims 9 and 34 above. Banginwar and Heuer did not teach the traffic demand request. Graves taught wherein the traffic demand is determined at least in part from a request (col. 1, lines 51-55; col. 2, lines 21-25; col. 12, lines 65-67).
- 28. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banginwar, Heuer and Graves because Graves's method of traffic demand request would increase the efficiency of Banginwar's and Heuer's systems by allowing optimized configuration of network element based on the demand of network users.
- 29. As per claims 14, 22, 39 and 47, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 13, 21, 38 and 46 above. Graves further taught wherein the request is expressed in terms of one or more of the following: bandwidth, latency, jitter, loss rate, protection type, and burst size (col. 9, lines 38-42).

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30. As per claims 17 and 42, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 13 and 38 above. Graves further taught wherein the request is expressed using a user-to-network interface (col. 9, lines 35-38).

- 31. As per claims 18 and 43, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 13 and 38 above. Graves further taught wherein the request expresses a service level agreement (col. 5, lines 32-34).
- 32. As per claims 19, 24, 44 and 49, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 18, 21, 43 and 46 above. Graves further taught wherein the request expresses a service level agreement that allows a customer to reserve a private path (col. 3, lines 16-29).
- 33. Claims 15-16 and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banginwar, Heuer and Graves in view of "Official Notice".
- 34. As per claims 15-16 and 40-41, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 13 and 38 above. Banginwar, Heuer and Graves did not teach RSVP. "Official Notice" is taken for the concept of RSVP is known and accepted in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use RSVP because by doing so would increase the reliability of system by ensuring the availability of resources for network transmission based on user's demand.

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35. Claims 20, 25, 45 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banginwar, Heuer and Graves in view of Gordon et al, U.S. Patent 6,671,729 (hereinafter Gordon).

- 36. As per claims 20, 25, 45 and 50, Banginwar, Heuer and Graves taught the invention substantially as claimed in claims 19, 21, 44 and 46 above. Banginwar, Heuer and Graves did not specifically detailing the service level agreement. Gordon taught wherein the request expresses a service level agreement that allows a customer to reserve a protection path in addition to the private path (col. 1, lines 65-col. 2, lines 2; col. 5, lines 52-67).
- 37. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banginwar, Heuer, Graves and Gordon because Gordon's method of reserving a path would increase the security of Banginwar's, Heuer's and Graves's systems by allowing allocation of resource based on the security level express in the service level agreement.

CONCLUSION

38. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Fielding et al, U.S. Patent 6,181,696, disclosed a method of configuring different types of

devices from different manufacturers.

39. A shortened statutory period for reply to this Office action is set to expire THREE

MONTHS from the mailing date of this action.

40. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Philip C Lee whose telephone number is (703)305-7721. The

examiner can normally be reached on 8 AM TO 5:30 PM Monday to Thursday and every other

Friday.

41. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Follansbee can be reached on (703)305-8498. The fax phone number for the

organization where this application or proceeding is assigned is (703)872-9306.

42. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)350-6121.

P.L.

JOHN FOLLANSBEE SUPERVISORY PATENT EXAMINER

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